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1 Linux Print System at Cisco Systems, Inc. 

Damian Ivereigh
October 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(40.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Cisco runs a redundant system of 50 print servers using Linux, Samba and Netatalk. It prints to approximately 1,600 printers worldwide, serving 10,000 UNIX and Windows 95 users, some of whom are in mission-critical environments

2 High availability & performance: WS-replication: a framework for highly available web services 

 Jorge Salas, Francisco Perez-Sorrosal, Marta Patiño-Martínez, Ricardo Jiménez-Peris
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available:  [pdf\(3.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Due to the rapid acceptance of web services and its fast spreading, a number of mission-critical systems will be deployed as web services in next years. The availability of those systems must be guaranteed in case of failures and network disconnections. An example of web services for which availability will be a crucial issue are those belonging to coordination web service infrastructure, such as web services for transactional coordination (e.g., WS-CAF and WS-Transaction). These services should ...

Keywords: WS-CAF, availability, group communication, transactions, web services

3 Session 3: A type system extension for middleware interactions 

 Sven De Labey, Eric Steegmans
March 2007 **Proceedings of the 1st workshop on Middleware-application interaction: in conjunction with Euro-Sys 2007 MAI '07**

Publisher: ACM Press

Full text available:  [pdf\(462.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Object-oriented programming languages such as Java provides inadequate support for advanced method invocation strategies in distributed applications. Invocation semantics such as *reliable unicast* and *multicast* must be implemented based on primitive, unreliable

unicast mechanisms such as Java RMI and Socket communication. This forces developers to devise ad hoc communication strategies, which is a repetitive and error-prone process. Moreover, these communication strategies are en ...

Keywords: fault tolerance, group method invocation, type qualifier, type system

→ 4 Cluster-based scalable network services



Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

→ 5 Fast cluster failover using virtual memory-mapped communication



Yuanyuan Zhou, Peter M. Chen, Kai Li
May 1999 **Proceedings of the 13th international conference on Supercomputing ICS '99**

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Supporting package software documentation: options for user services groups



John B. McKee
December 1987 **Proceedings of the 15th annual ACM SIGUCCS conference on User Services SIGUCCS '87**

Publisher: ACM Press

Full text available: pdf(403.17 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this presentation, I wish only to encourage a thoughtful use of software package documentation by User Service Groups (hereafter USGs). I do not wish to give specific advice. USGs vary enormously in many ways, including size, available resources, span of control, and types of software supported. What is good advice for one is bound to be bad advice for several others. After hearing about the aims of package documentation and the options for implementing them in an overall USG strategy, a ...

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SB Lim, A Singhai, SR Radia... - US Patent 5,938,732, 1999 - Google Patents

... To provide many-to-many **failover**, a plurality of hosts are organized into a "**service group**" wherein each host is capable of providing the service rendered by ...

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[\[BOOK\] The grid - all 2 versions »](#)

I Foster, C Kesselman - 1999 - hpcc.unical.it

... Dynamic & intelligent provisioning • Automatic **failover** Source: The Grid: Blueprint for a New Computing Infrastructure (2 ... **WS-Service Group** ...

[Cited by 287 - Related Articles - View as HTML - Web Search](#)

[The SunSCALR Framework for Internet Servers - all 8 versions »](#)

A Singhai, SB Lim, SR Radia - Proc. of the 28th Intl. Symposium on Fault-Tolerant ... - doi.ieeeecs.org

... Automatic Installation Most IP **failover** mechanisms we found need to know a ... use IP multicast to allow hosts to dynamically join and leave the **service group**. ...

[Cited by 28 - Related Articles - Web Search](#)

[Server fail-over system - all 3 versions »](#)

H Le, G Tene - US Patent 6,145,089, 2000 - Google Patents

... A110 or connection 325 fails, first **service group** 320 is failed over to server B 130. The **fail-over** process is discussed in more detail below. ...

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[Active/active replication for highly available HPC system services - all 5 versions »](#)

C Engelmann, SL Scott, C Leangsuksun, X He - Proceedings of International Symposium on Frontiers in ..., 2006 - doi.ieeecomputersociety.org

... since active services run in virtual synchrony without the need to **failover**. ... order and reliable message delivery as well as **service group** membership management ...

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[\[PDF\] JOSHUA: Symmetric active/active replication for highly available HPC job and resource management - all 3 versions »](#)

K Uhlemann, C Engelmann, SL Scott - Proceedings of IEEE International Conference on Cluster ..., 2006 - csm.ornl.gov

... of a failure, since active services run in virtual synchrony without the need to **failover**. ... The size of the active **service group** is variable at run- time, ie ...

[Cited by 6 - Related Articles - View as HTML - Web Search](#)

[A load cluster management system using SNMP and web - all 5 versions »](#)

MS Kim, MJ Choi, JWK Hong - Int. Journal of Network Management, 2002 - dx.doi.org

... the cluster farm by removing this failed host in the **service group** or replacing ... Piranha, we can construct two types of cluster systems: **Fail-Over Service (FOS** ...

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[\[PDF\]](#) **Symmetric Active/Active High Availability for High-Performance Computing System Services - all 3 versions »**

C Engelmann, SL Scott, XB.He - JOURNAL OF COMPUTERS, 2006 - academypublisher.com

... group communication system for **service group** membership management ... in virtual synchrony

without the need to **failover**. ... with trans- parent **fail-over** and multiple ...

Cited by 5 - Related Articles - View as HTML - Web Search

On Programming Models for Service-Level High Availability - all 4 versions »

C Engelmann, SL Scott, C Leangsuksun, X He - Proceedings of 2 ndInternational Conference on Availability, ..., 2007 - doi.ieeecomputersociety.org

... the Cray XT3 [22] supports high availability using a hot standby redundancy involving Crays proprietary inter- connect for replication and transparent **fail-over** ...

Cited by 2 - Related Articles - Web Search

[\[PDF\]](#) **A Guide To Implementing Cost Effective High Availability Techniques Using VERITAS Cluster Server - all 2 versions »**

J Senicka - White Paper, VERITAS, 2004 - eval.symantec.com

... with multiple applications running per server, **Service Group** Workload Management provides the capability to properly select a **failover** location, individually ...

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... state for a cluster of data servers in the presence of load-balancing, **failover**, and fail-back ...

K Code - freepatentsonline.com

... [0011] The present system provides a mechanism for proper **lock recovery** upon cluster server **failover** and fail-back; this mechanism also enables lock transfers ...

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[\[PDF\]](#) [Using Sharing to Simplify System Management](#) - all 5 versions »

MD Schroeder - COMPUTER SYSTEMS - research.microsoft.com

... built using leases and depending on server operation logs for **lock recovery**, as in ... For example, in a uniserver using standby servers for **failover**, the idea of ...

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C Casper, KF Dove - 2003 - freepatentsonline.com

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path **failover**, and device ... same server or application **fail-over** and restart ...

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KF Dove, BA Kingsbury, S Revitch, TM Rokop - 2004 - freepatentsonline.com

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path **failover**, and device ... same server or application **fail-over** and restart ...

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JM Nick, BB Moore, JY Chung, NS Bowen - IBM Systems Journal, 1997 - research.ibm.com

... able to access shared external resources during cluster **fail-over** recovery scenarios ... set of locks held at the time of failure, enabling efficient **lock recovery**. ...

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[System and method for a multi-node environment with shared storage](#) - all 3 versions »

MJ Callahan, C Casper, KF Dove, BA Kingsbury, PE ... - 2003 - freepatentsonline.com

... AND METHOD FOR EFFICIENT **LOCK RECOVERY** filed concurrently ... recovery, storage network

path **failover**, and device ... same server or application **fail-over** and restart ...

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OMA Gadir, K Subbanna, AR Vayyala, H Shanmugam, AP ... - US Patent 6,944,785, 2005 -
Google Patents
... Another good port exists Invoke **failover** to another node [US 6,944,785 B2](#) 1201 ...
Perform
NFS lock recovery Initialize virtual CIFS server and shares FIG. . 9 ...
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IBM paper → [PART I - all 2 versions »](#)
JM Nick, BB Moore, JY Chung, NS Bowen - research.ibm.com
... external resources during cluster **fail-over** recovery scenarios ... the time of failure,
enabling efficient **lock recovery**. ... is the means to "failover" applications to ...
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NFSM Version - tools.ietf.org
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